

REMARKS

Enclosed herewith is a Substitute Specification in which the specification as filed has been amended in various places to correct typographical and grammatical errors, and also to add section headings.

In support of the above, enclosed herewith is a copy of the specification as filed marked up with the above changes.

The undersigned attorney asserts that no new matter has been incorporated into the Substitute Specification.

The claims have been amended to more clearly define the invention as disclosed in the written description. In particular, the claims have been amended for clarity.

The Examiner has rejected claims 1, 3, 4, 8 and 10 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,317,882 to Robbins in view of U.S. Patent 6,266,480 to Ezaki et al. and U.S. Patent 6,029,229 to Vishlitzky. The Examiner has further rejected claims 6 and 7 under 35 U.S.C. 103(a) as being unpatentable over Robbins in view of Ezaki et al. In addition, the Examiner has rejected claims 2 and 5 under 35 U.S.C. 103(a) as being unpatentable over Robbins in view of Ezaki et al. and Vishlitzky, and further in view of U.S. Patent 6,658,231 to Nakatsuyama. Finally, the Examiner has rejected claim 9 under 35 U.S.C. 103(a) as being unpatentable over Robbins in view of Ezaki

et al. and Vishlitzky, and further in view of U.S. Patent 6,535,717 to Matsushima et al.

The Robbins patent discloses a system and method for automatically reminding a user of a receiver that a broadcast is on a data stream, in which ID codes are transmitted along with a television broadcast stream. These ID codes are detected and stored at the receiver. The ID codes may be used to identify a television program which includes a corresponding ID code, or the ID codes may be used to set up a receiver for recording a particular television program. Each television program includes an ID code corresponding to one of the ID codes stored at the receiver. In the case of automatic tuning the a particular program identified by one of the stored ID codes, the Robbins system scans the incoming broadcast stream to find the particular television program having an ID code corresponding to the identified ID code. When such a particular television program is found, the Robbins system automatically tunes to the particular television program.

The Ezaki et al. patent discloses apparatus and method for effectively inhibiting unauthorized copying of picture signals which does not interfere with an authorized display thereof, in which, as noted by the Examiner, the broadcast of digital data may be viewed only once by including a scrambling signal in the broadcast so that upon attempted recording of the television

program, the picture is deteriorated to an unacceptable level for viewing.

The Vishlitzky patent discloses a digital data storage subsystem including directory for efficiently providing formatted information for stored records, in which a descriptor is created for describing stored digital data content, where the description contains information about the data in the storage device and where it is located.

The subject invention pertains to identifying data as multiple-use and single-use data and for adding a data descriptor to each of the identified multiple-use data. The data stream, including single-use data and multiple-use data with data descriptors is transmitted. At a receiver, the receiver scans the incoming data stream for the data descriptors. At each occurrence, the receiver stores the data descriptors as well as the corresponding multiple-use data. The receiver then composes a content for an application using the stored multiple-use data and the single-use data.

In particular, as claimed in, for example, claim 1, the transmitter of the subject invention includes "analysis means for analyzing digital data so as to identify data referred to as multiple-use data which can be used several times at the receiver end, and data referred to as single-use data which can be used only once upon reception at the receiver end", "creation means for

creating data descriptors for describing each multiple-use data previously identified, said descriptors comprising a set of characterizing fields", and "insertion means for inserting the data descriptors in the set of multiple-use data, each multiple-use data being then associated with a data descriptor". Furthermore, the receiver of the subject invention includes "analysis means for analyzing received data so as to detect the presence of descriptors of multiple-use data and thus to identify multiple-use data and single-use data", "storage means for storing detected multiple-use data and their associated descriptors previously received", "recovery means for recovering multiple-use data previously stored" and "composition means for composing the contents of an application on the basis of single-use data and multiple-use data previously stored, a same data which has a multiple use in the composition of said contents being then directly recovered upon each use from said storage means by said recovery means".

Applicant submits that Robbins neither shows nor suggests the "analysis means", the "creation means" nor the "insertion means" as described above and claimed. Rather, Robbins merely includes a data stream of ID codes, and adds ID codes to each of the transmitted television programs.

Further, while Robbins discloses that at the receiver, the data stream of ID codes may be stored, Robbins neither discloses or suggests that the data stream, including single-use data and the

combinations of multiple-use data and data descriptors, should be scanned to find the data descriptors and that these data descriptors as well as the accompanying multiple-use data should be recorded, and that the recorded multiple-use data should be recovered from storage to be combined with single-use data in the composition means.

Applicant acknowledges that Robbins suggests that the television programs may eventually be recorded. However, Applicant submits that recording a television program using, for example, a VCR, is significantly different from storing multiple-use data and then retrieving this multiple-use data so as to combine it with single-use data.

While Ezaki et al. discloses methods for modifying video signals such that they can only be viewed and not recorded, Applicant would like to point out to the Examiner that these modifications are only effective with regard to the analog video signal (e.g., the horizontal and/or vertical synchronizing signals are modified). Applicant submits that the Ezaki et al. system would have no effect in the digital domain. In particular, in the subject invention, the data descriptors are included only with multiple-use data which then enables the receiver to store the multiple-use data such that the multiple-use data may be used a multiple number of times in the composition means. While the single-use data, which does not contain the data descriptors, may not be stored by the

receiver and is supplied directly to the composition means for single use.

The Vishlitzky subsystem is merely a system for cataloging data that is stored in a storage device. However, Applicant submits that Vishlitzky neither shows nor suggests the retrieving of specific multiple-use data from storage and combining this multiple-use data with received single-use data to form content for an application.

The Nakatsuyama patent discloses a receiver for user-demand information and entertainment system using wide area digital broadcast, which receives user-demand information on a digital broadcast, where real-time updates on programs may be stored, and in which a time stamp field receives programs at specific times, and when the receiver's memory is full, overwrites the old programs.

However, Applicant submits that Nakatsuyama does not supply that which is missing from Robbins, Ezaki et al. and Vishlitzky, i.e., at the transmitter identifying data as multiple-use and single-use data and for adding a data descriptor to each of the identified multiple-use data, transmitting the data stream, including single-use data and multiple-use data with data descriptors, and at a receiver, scanning the incoming data stream for the data descriptors, at each occurrence of a data descriptor, storing the data descriptors as well as the corresponding multiple-use data, recovering the stored multiple-use data, and composing a

content for an application using the recovered stored multiple-use data and the received single-use data.


The Matsushima et al. patent discloses a method, system and apparatus for transmitting, receiving and reproducing a digital broadcast signal, in which encoding is performed by means of MPEG-4.

However, Applicant submits that Matsushima et al. does not supply that which is missing from Robbins, Ezaki et al. and Vishlitzky, i.e., at the transmitter identifying data as multiple-use and single-use data and for adding a data descriptor to each of the identified multiple-use data, transmitting the data stream, including single-use data and multiple-use data with data descriptors, and at a receiver, scanning the incoming data stream for the data descriptors, at each occurrence of a data descriptor, storing the data descriptors as well as the corresponding multiple-use data, recovering the stored multiple-use data, and composing a content for an application using the recovered stored multiple-use data and the received single-use data.

In view of the above, Applicant believes that the subject invention, as claimed, is not rendered obvious by the prior art, either individually or collectively, and as such, is patentable thereover.

Applicant believes that this application, containing claims 1-10, is now in condition for allowance and such action is respectfully requested.

Respectfully submitted,

by 
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By Burnett Jones